

FIGURE 1

The diagram illustrates the process of estimating the channel impulse response using a training sequence. It consists of four horizontal timelines, each with a time axis t and a zero reference point 0 .

- Timeline 1 (Terminal):** Shows a "Training Sequence" starting at $t=0$ and extending to the right.
- Timeline 2 (Base Station):** Labeled "Transmit", it shows the training sequence being transmitted from the terminal to the base station.
- Timeline 3 (Base Station):** Labeled "Correlate", it shows the received signal at the base station, which is the training sequence corrupted by the channel impulse response.
- Timeline 4 (Base Station):** Labeled "Calculate", it shows the resulting "Equalizer Filter" response, which is the inverse of the channel impulse response.

The "Channel Impulse Response" is shown as a complex waveform between the transmitted and received signals, representing the distortion introduced by the channel.

FIGURE 3C

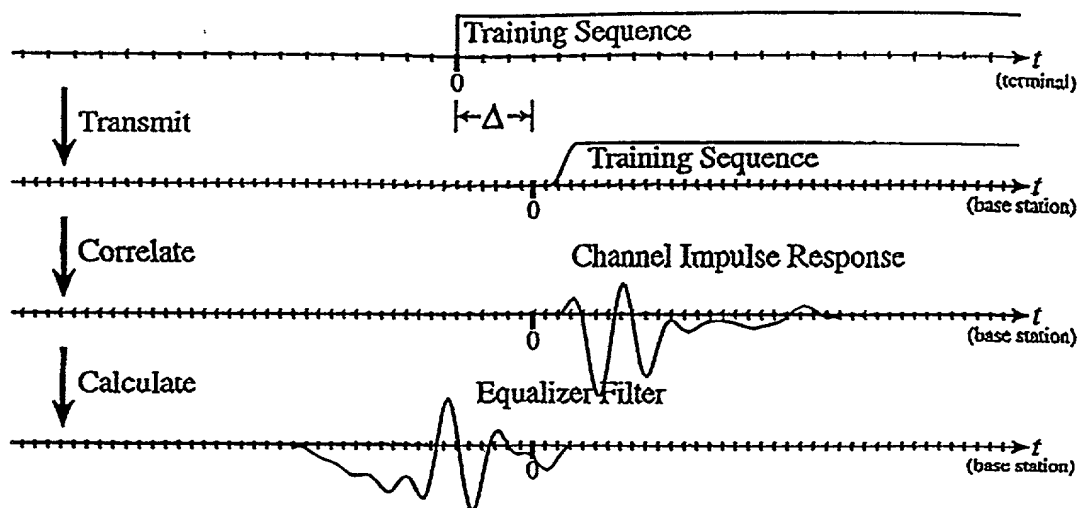


FIGURE 4A

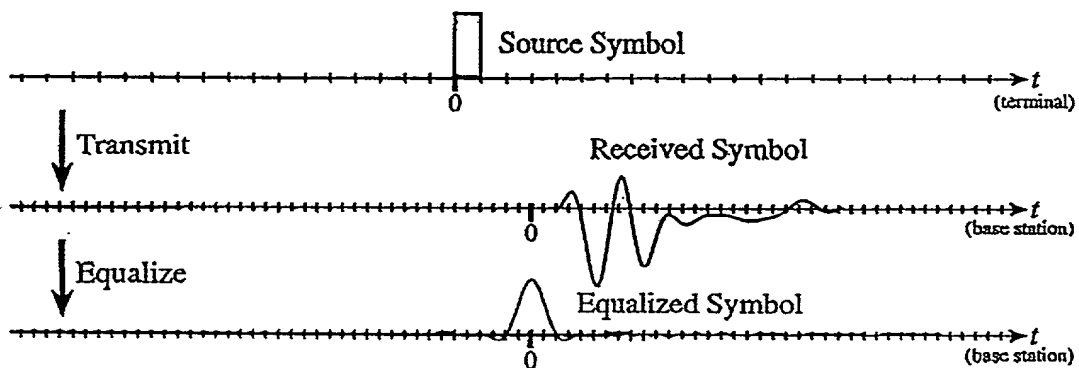


FIGURE 4B

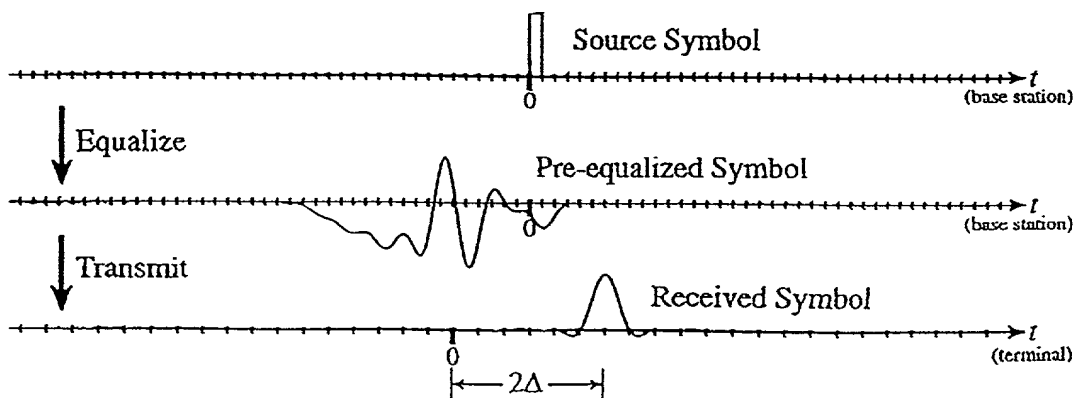


FIGURE 4C

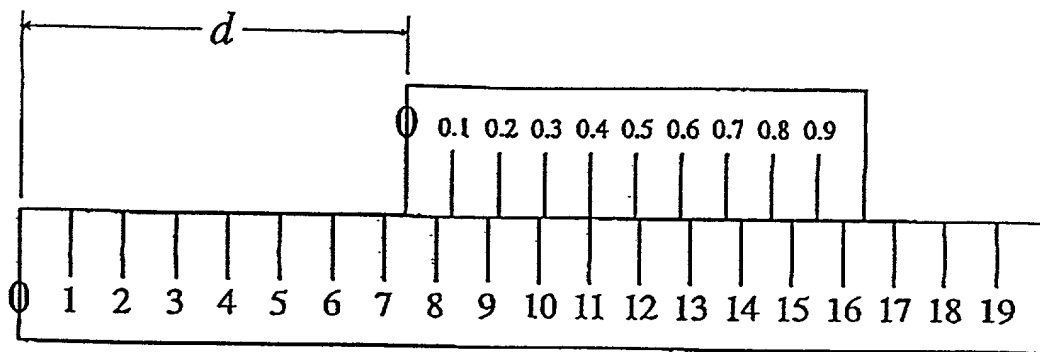


Figure 5

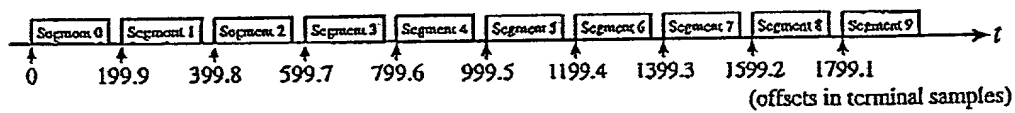


FIGURE 6A

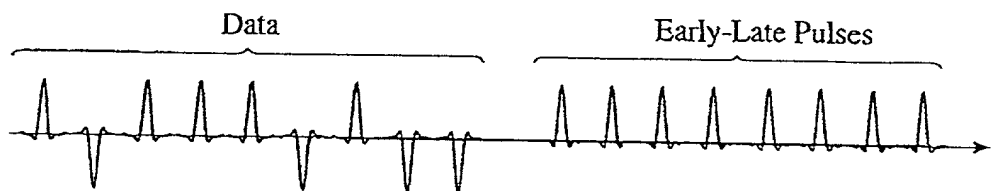


FIGURE 6B

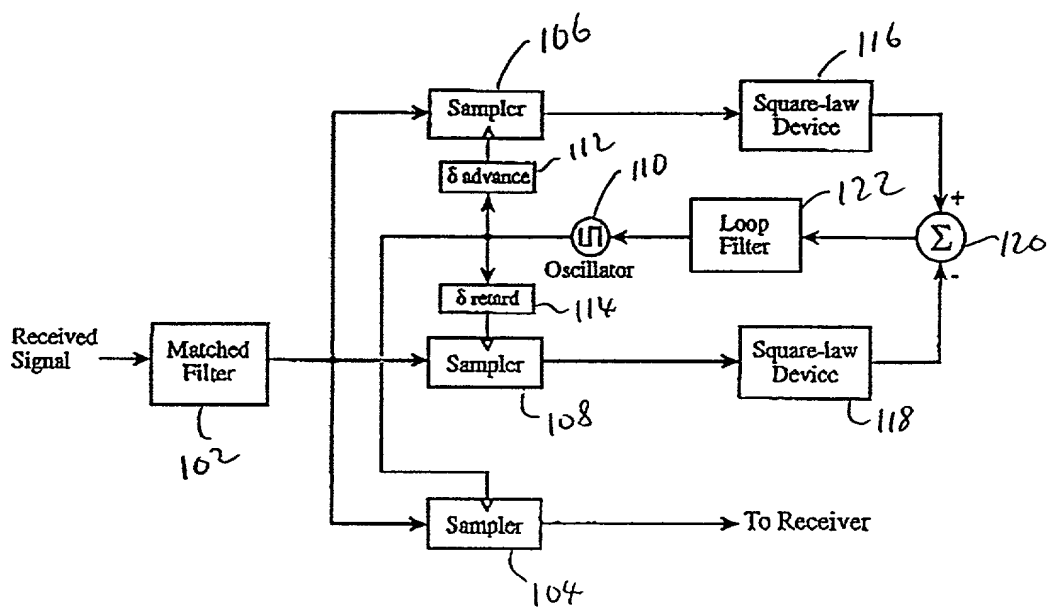


Figure 7

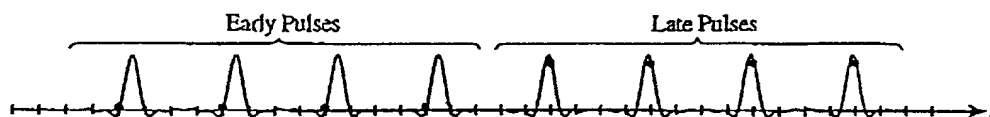
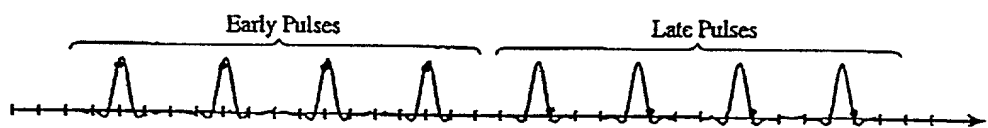
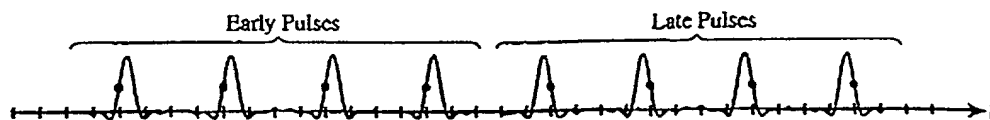


FIGURE 10

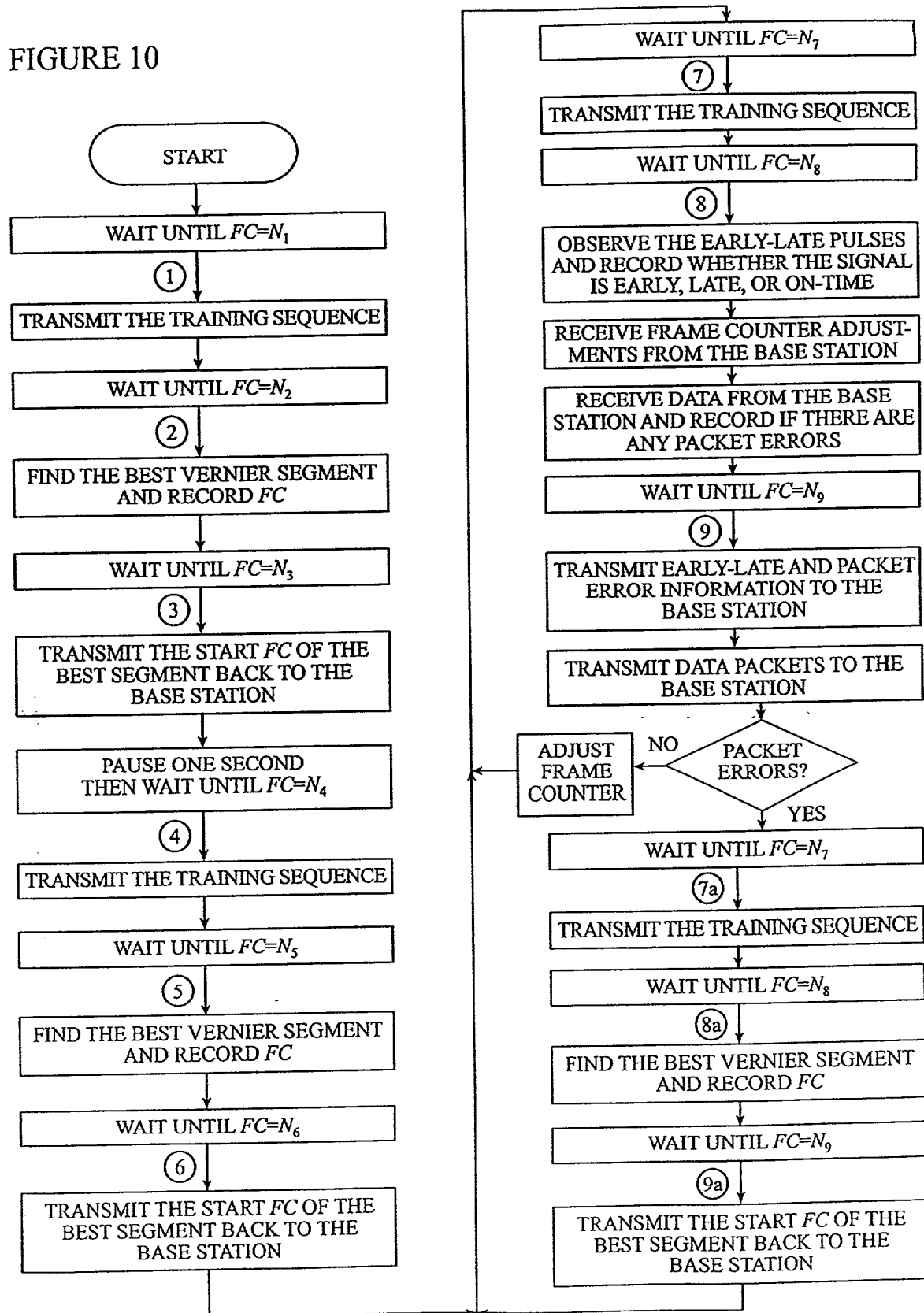


FIGURE 11

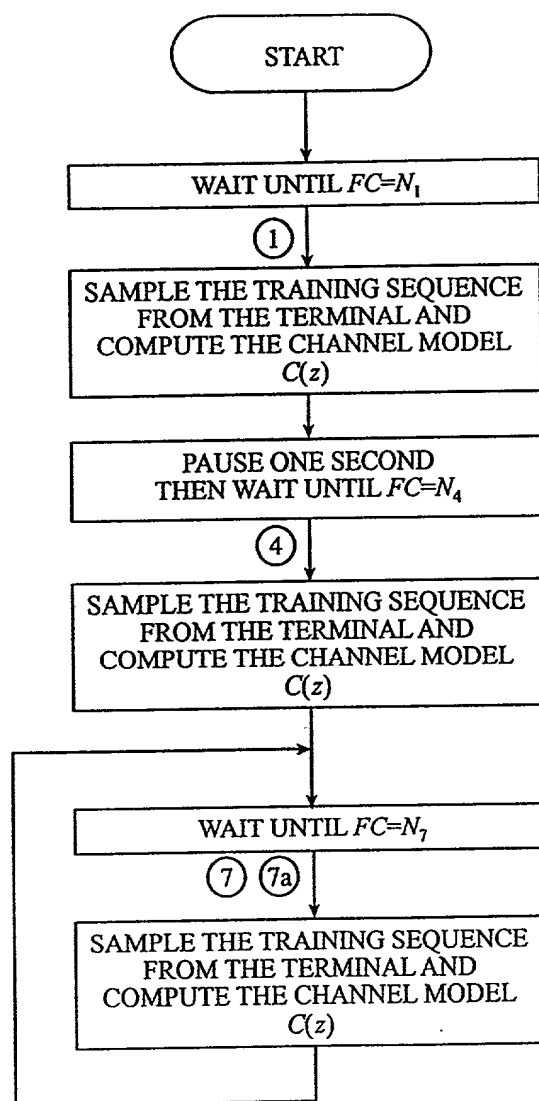


FIGURE 12

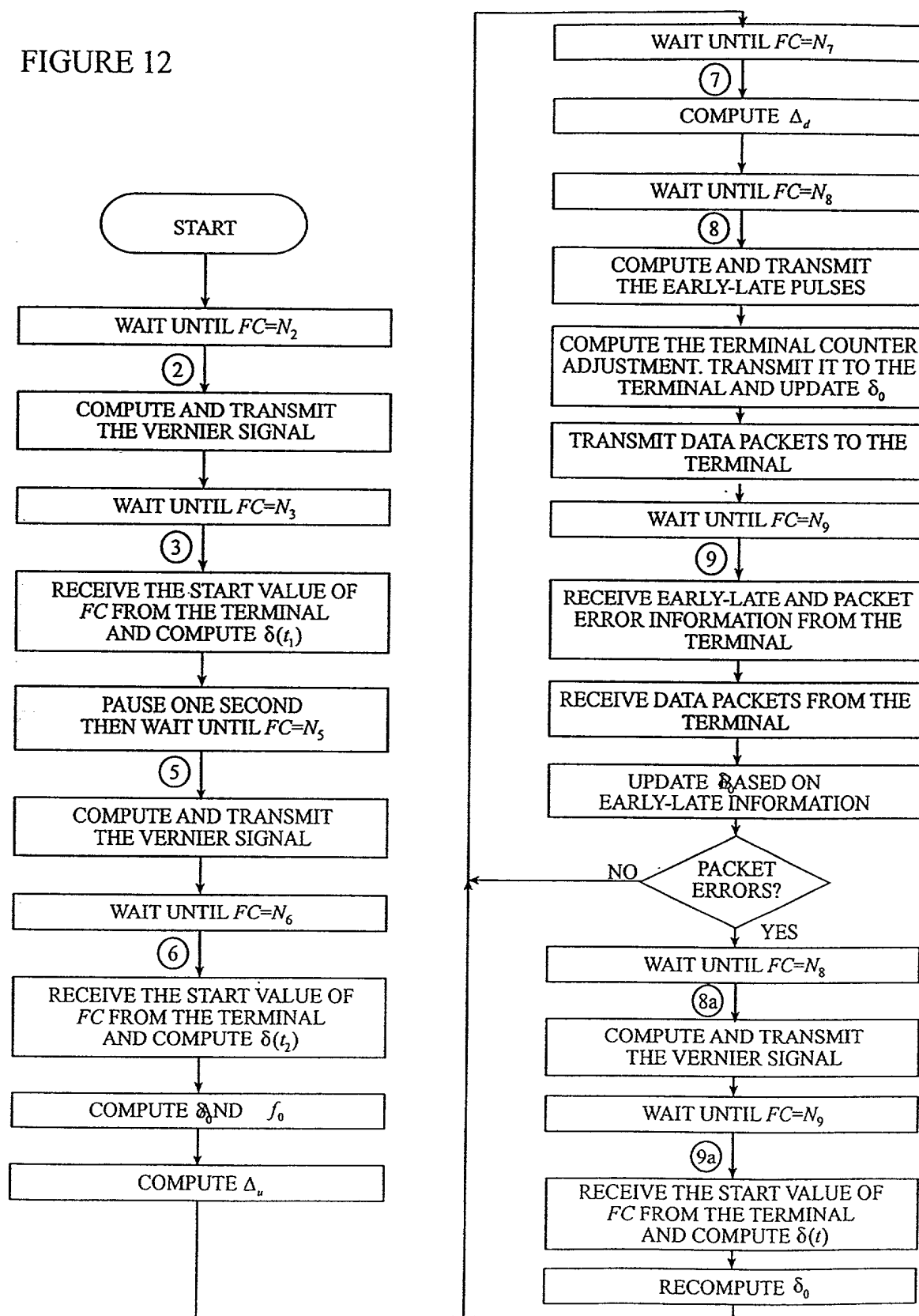


FIGURE 13

